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August 21, 2008

The Honorable Robert R. Patterson Senior United States District Judge Southern District of New York

New York, New York 10013

Re: United States v. Rafael Barrios Indictment No. 01511-2007

Dear Judge Patterson:

Please accept this letter memorandum submitted on behalf of my client, Rafael Barrios, who is scheduled for sentencing before Your Honor on Monday, August 25, 2008, at 2:00 p.m.

PROCEDURAL HISTORY

On March 30, 2007, Mr. Barrios was arrested by three New York City police officers who witnessed Mr. Barrios, along with three other men, standing on the sidewalk next to a Chrysler parked on Prospect Street in the Bronx, New York. According law enforcement, the officers observed the men holding cups in their hands and, suspecting violations of the prohibition against drinking alcohol from an open container, approached to investigate. Upon approaching the men, Officer William O'Donnell testified that the defendant was observed tossing what may have been a handgun underneath the Chrysler and, at that point, Mr. Barrios was placed under arrest.

Barrios was brought to the precinct for processing, and subsequently the Chrysler, which was registered Barrios, or any of the individuals standing with him next to the Chrysler, inside the vehicle nor accessing the Subsequent to Mr. Barrios' arrest, a handgun was recovered from underneath the Chrysler. Mr. to Mr. Barrios, was searched and seized. Narcotics and other physical evidence were recovered from inside the trunk of the vehicle. As the trial testimony made apparent, law enforcement did not observe Mr. trunk to the Chrysler at any time.

§ 812, 841 (a)(1) and 841 (b)(1)(C), a class C felony, and, Count Two, that the defendant employed a On or about July 19, 2007, a grand jury for the Eastern District of New York issued a two-count Indictment charging the following: Count One, that the defendant unlawfully, intentionally and knowingly possessed with the intent to distribute a controlled substance in violation of Title 21, United States Code, firearm to facilitate the crime of drug trafficking in violation of Title 18, United States Code, § 924(c)(1), Mr. Barrios was held in state custody until he was arrested by federal agents on April 27, 2007. a class A felony. Hearings were conducted on the matter on October 25, 2007. The hearing Court disagreed with the defense position that (1) permitting law enforcement to locate property, take it into custody and thereafter search it, under the guise of "safe-guarding" property that was not in its custody in the first place, runs afoul of Fourth Amendment protections, and (2) that the government failed to meet their burden to establish law enforcement conducted an "inventory search" as such has been defined and articulated by the New York State Court of Appeals. During pre-trial negotiations, the government indicated that they would recommend a period of five years incarceration upon a plea of guilty to both counts of the indictment. The defendant opted to exercise his constitutional right to a trial by jury.

on November 29, 2007, the jury announced that it was unable to reach a unanimous verdict, and a mistrial The initial trial on this matter commenced on November 27, 2007. After a period of deliberations,

Jersey, some 4 hours from New York City, Mr. Barrios and his family responded faithfully, diligently and located at 3 Adams Circle in Hammonton, New Jersey. Upon release from Federal custody, Mr. Barrios was subject to strict supervision, including weekly substance abuse testing, an early curfew, travel restrictions and electronic monitoring. Rafael Barrios was compliant with each and every term and condition of his pre-trial release. Further, although Mr. Barrios resides with his family in Hammonton, New On December 21, 2007, Mr. Barrios was released on a \$200,000 bond, secured by the family home, After the mistrial, the Court entertained and thereafter granted Mr. Barrios' application for bail. dutifully to appear as directed by the Court. The second trial on this matter commenced on February 25, 2008. On February 29, 2009, after a period of deliberations, the jury reached a verdict of guilty on both counts. At that time, Mr. Barrios was remanded back into the custody of the Federal Bureau of Prisons. As documented in the PSR prepared by the department of probation, there are no disciplinary records for Mr. Barrios during his incarceration.

According to the terms of the pre-sentence report, Mr. Barrios faces an advisory guideline range of 51 to 63 months imprisonment on Count One, followed by the mandatory 60 month consecutive term of A pre-sentence investigation was conducted by United States Department of Probation.

Mr. Barrios comes from a loving, supportive family with a strong work ethic. Prior to his arrest on this near future, Rafael will be able to rejoin his loving family, re-integrate back into society, and embark on potential to live as a contributing, valuable and highly functioning member of society. It is notable that While the defense recognizes the serious nature and consequences of the crimes for which Mr. Barrios stands convicted, it is our hope, shared by Rafael and his family, that this Court will give due submissions, the defense seeks to demonstrate to this Court that Rafael is a young man with immense matter, Mr. Barrios was gainfully employed, steadily, since 16 years of age. It is our hope that in the consideration to factors that support imposing a sentence that is "sufficient, but not greater than necessary". As supported by the letters from family and friends, as well as other documentary building a positive, constructive and beneficial future.

GOVERNING LEGAL PRINCIPLES

advisory, the sentencing court must still calculate the appropriate sentencing range under the guidelines, section 335(a)(4), to "consider' it, along with all of the factors listed in section 3553 (a)." This Court applicable guideline range has been determined, the sentencing judge will have the duty, imposed by Once an the United States Sentencing Guidelines advisory. The Second Circuit has instructed that, although In United States v. Booker, 543 U.S. 220 (2005), the United States Supreme Court rendered must give due consideration to the factors identified in 18 U.S.C. § 3553(a), in order to impose a including any departure provisions. United States v. Crosby, 397 F.3d 103 (2d Cir. 2005). sentence "sufficient, but not greater than necessary." These factors are as follows:

- the nature and circumstances of the offense and the history and characteristics of the \equiv
- (2) the need for the sentence imposed –
- to reflect the seriousness of the offense, to promote respect for the law, and to provide just punishment for the offense; (y)
- (B) to afford adequate deterrence to criminal conduct;
- to protect the public from further crimes of the defendant; and 9
- medical care, or other correctional treatment in the most effective manner; to provide the defendant with needed educational or vocational training, 0
- 3) the kinds of sentences available;
- the kinds of sentence and the sentencing range established [by the Sentencing Guidelines $\overline{4}$
- (5) any pertinent policy statement ...;
- the need to avoid unwarranted sentence disparities among defendants with similar records who have been found guilty of similar conduct; and 9
 - the need to provide restitution to any victims of the offense. 0

that a period of six months imprisonment on Count One, followed by the mandatory term of 60 months After reviewing all of the section 3553(a) factors, it is the defense hope that this Court will find

Page 6

consecutive on Count Two, is a sufficient period of incarceration.

PERSONAL HISTORY

Rafael's father and mother have exemplified the value of hard-work as both worked steadily throughout ideals, the family is tightly knit and connected through the generations, the parents worked hard, saved twenty years at the Trump casino in Atlantic City. Although Rafael's parents separated over a decade Mr. Barrios upbringing. His father worked for over twenty-five years at Atlantic City Medial Center, system throughout all stages of the pre-trial proceedings and the two trials that were litigated before extremely connected and supportive family. The Barrios family in many ways exemplify American ago, his parents have maintained a caring and amicable relationship and presented a united support and his mother, who is now medically retired due to Myasthenia Gravis disease, worked for over their money, and were able to purchase a home, close to other members of their extended family. Twenty-eight year old Rafael Barrios is the youngest of two children who come from an Your Honor.

work ethic, strong commitment to their familial relationships, and productive lives. Rafael's 30 year-old before this Court. At the time of the trial, Ms. Tanya Barrios was attending Richard Stockton College Both Rafael and his older sister have followed in their parent's footsteps in adopting a healthy sister Tanya Barrios also was present, her work schedule allowing, throughout the two trials litigated in New Jersey, working as a neo-natal nurse at Atlantic City Medical Center, and expecting her first Since that time, Ms. Barrios has had a son, Rafael's nephew Chase, and remains an ardent source of love, support and guidance for Rafael.

RAFAEL IS A CONTRIBUTING AND PRODUCTIVE MEMBER OF SOCIETY

community service projects he voluntarily participated in (See Exhibit D, Letter from Lambda Theta Phi demonstrated his ability and desire to contribute as a productive member of society. At the time of his High School). Further, Rafael has demonstrated his openness to pursuing productive avenues to bring and gainfully employed since the time he was in high school. (See Exhibit B, Diploma from Oakcrest Construction (See Exhibit A, Letter from Joseph Randazzo, Jr.). Moreover, Rafael has been steadily Rafael, a young man who has been gainfully employed since 16 years of age, has consistently Exhibit C, Certificate from Atlantic County Vocational School in Pastry Baking) and the numerous positive benefits to himself and the society he lives in, such as obtaining a vocational training (See Latin regarding volunteer work for the Cystic Fibrosis Fund and Support for Victims of Hurricane Katrina; Exhibit E, Letter from Police Officer Melvin Murray regarding volunteer work as a Peer arrest, Rafael had been working for two years, and was a valued employee, with Randazzo Athletic Advisor in the Venice Park Afterschool Basketball League).

counsel's conversations with Rafael's family, friends and co-workers has established, to a person, that Randazzo Construction and simultaneously worked intermittently with AWL Construction. Defense While Rafael is now incarcerated, at the time of his conviction he was working full-time at

Rafael is a respectful, hardworking and well liked young man. The fact that Rafael, a young man with such potential, who has a demonstrable desire to positively contribute to society, and who was headed stalwartly in the right direction, became connected to narcotics and criminal activity, is a not only a monumental source of disappointment and loss to the Barrios family, but to society in general.

ATTESTATIONS OF RAFAEL BARRIOS' CHARACTER AND ABILITY TO BE A LAW ABIDING CITIZEN

belief in Rafael's future potential and remain committed to working together to support him in building family and friends. These letters capture Mr. Barrios' character, his giving nature, and the strong ethics challenging, and at times heart-breaking, for Rafael and his family, they have expressed their continued members of law enforcement, one from Detective Danny Adcock, who has known Rafael for 25 years, involvement in the criminal justice system was a great source of surprise and disappointment for those and one from Police Officer Melvin Murray, Jr., with whom Rafael volunteered in a community afterand values of the people who support him. It is notable that two of the letters of support come from Collectively attached hereto as "Exhibit G" are additional letters written by Rafael Barrios" school program The defense found that Mr. Barrios' arrest, connection to criminal activity and close to him. Although Rafael's involvement in the criminal justice system has been shocking, positive and rewarding future.

evidence by their steadfast belief in Rafael's potential, frequent telephone calls of concern to our law Throughout this situation it has been more than apparent that the supportive relationship that exists between Rafael and his extended familyd his co-workers and his friends remains intact, as office, and the letters of support which are collectively attached here.

RAFAEL BARRIOS IS UNABLE TO PAY A FINE

Washington Mutual charge account, \$533 owed to an account with Verizon, and \$24,693 owed on an Barrios was gainfully employed at the time of his arrest, he was earning a modest wage of \$15.00 per current source of income. Further, an Equifax credit report generated by the department of probation outstanding loan on the Chrysler seized and forfeited attendant to his arrest. Additionally, while Mr. hour. As such, the defense asserts that the defendant does not have the present or prospective ability As confirmed by the department of probation in their PSR, Rafael Barrios does not have confirmed that Mr. Barrios owes \$250 toward an HSBC Bank charge account, \$705 toward a to pay a fine of any significance, and respectfully requests that this Court not impose a fine.

REQUEST FOR COURT DIRECTIVE FOR INCARCERATION IN NEW JERSEY

in order to facilitate continued connection with the family that stands ready to provide him with support, The defense further requests that this Court order that Rafael be housed in a New Jersey facility encouragement and guidance up until the time of his release. In support of this request, the defense brings to the Court's attention the fact that Mr. Barrios' mother, Frances Barrios, suffers from

Honorable Robert Patterson August 21, 2008 Page 10

travel a great distance to visit her son. As such, it would be a great consolation to the Barrios family to At such times it will be most onerous, if not impossible, for Ms. Barrios to Myasthenci Gravis Disease. (See Exhibit H). Frequently, and to varying degrees, the disease renders have Rafael housed as close as possible to the family home in Hammonton, New Jersey. Ms. Barrios immobilized.

CONCLUSION

recognizes that Rafael Barrios is a young man with the capacity to learn from this situation, an individual stated in the letter of to the Court here submitted on behalf of Rafael's cousin, Louis Barrios (Exhibit F): The defense is hopeful that a review of this young man's personal history, work history, family connectedness, and his lack of significant contact with the criminal justice system will lead this penalogical objectives are best served by Rafael's timely return to the positive support systems that who has previously demonstrated a desire to be a positive and contributing member of society, and exist within his extended family and community. The defense believes that such a determination Court to conclude that, while a period of incarceration is required under the law, societal and person who has the potential to move forward to create a positive and productive future.

would have on Rafael. In conversations I have had with him I know he has grown from this experience and as unconventional as it sounds, I believe he has become a better person for realizing what is important to "Rafael has the foundation to become a productive member of society given the opportunity. We all fear the effects that a long term sentence him as a man. He is a good young man with his entire life ahead of him. I ask the court to please have compassion in your sentencing of Rafael Barrios Jr." Page 11 August 21, 2008 Honorable Robert Patterson

detrimental circumstances he embroiled himself in, become a part of his past, and to support him as he The defense is hopeful that after review, this Court will conclude that such leniency is appropriate. It is the desire of all close to Rafael Barrios to see to it that the poor choices and embarks on creating a positive future.

On behalf of Rafael Barrios and his friends and family, the defense thanks you for your thoughtful consideration in sentencing Mr. Barrios.

HANG

Sincerely your

Foni Marie Angeli

(516) 745-0101

BANDAZZO

To Whom It May Concern:

company. He is very punctual and has excellent work habits. He is great in leading projects and is always eager to learn new things. I have had many people come through the field today. Rafael was earning \$15.00 per hour during his employment. He will always have a place to work as long as I am in business. Please feel free to contact me directly with any questions or concerns (609) 839-4960. Thank you. my company over the years and the qualities that Rafael have are very hard to find in The purpose of this letter is to inform you that Rafael Barrios Jr. has been an employee of my company for the past two years and is an absolute asset to my

Sincerely,

Joseph Randazzo Jr.

426 Pratt Street Hammonton, NJ 08037

fax E-Mall

(609) 839-4960 (609) 567-4239 razthree@msn.com



Aurrius certifies that Kataz

quadumian Markor Regional prescribed by satisfactorily fulfilled the requirements 100年の、苦気 Greater Oakerest Fducation of District and is

Awarded this month of June, 1999.

ATLANTIC COUNTY VOCATIONAL TECHNICAL SCHOOL

CATIONAL TECHNICAL SCHOO MAYS LANDING, NEW JERSEY THIS IS TO CERTIFY THAT

RAFAEL BARRIOS, JR.

HAS SATISFACTORILY COMPLETED THE CURRICULUM IN

PASTRY BAKING

PRESCRIBED BY THE VOCATIONAL SCHOOL IN THIS COUNTY OF ATLANTIC, IN RECOGNITION THEREOF THIS STATE OF NEW JERSEY

CERTIFICATE

IS GIVEN IN THE MONTH OF JUNE, 1999

DI Minelline

EV. BOLLED VIC ECHRONOLOGY

William S. Shows



Lambda Theta Phi Latin Fraternity Incorporated Lambda Gamma Chapter of Southern New Jersey

Phone: 856,882.1123 Fax: 855,784,1094

April 15, 2007

Re: Rafael Barrios Jr.

To Whom It May Concern:

Please accept the following letter as a testament on behalf of Rafael Barrios Jr. I have had the Lambda Theta Phi along with fund raising initiatives co-sponsored by Lambda Theta Phi and Intercounty opportunity and pleasure in working with Mr. Barrios in several community service projects sponsored by Mortgage Network of New Jersey,

disaster exhausted our Fraternity's resources and foundation man power. Mr. Barrios took the initiative to mobilize local depots in collecting needed resources which were ultimately delivered to a larger non-profit service initiatives in raising monetary funding, food, and resources for the Hurricane Katrina victims when The paramount need and broad reach of implications spurned by the natural Mr. Barrios has been instrumental in the organization of our Chapters efforts in community the initial disaster struck.

His participation in the Sixty Five Roses Sports Gala contributions from Mr. Barrios' efforts aided the sponsoring organizations in raising over \$25,000,00 for In May of 2006 Mr. Barrios assisted Lambda Theta Phi and Intercounty Mortgage with a coallowed the hosting organizations to solicit donations and products that were used in an auction. research and support purposes in fighting the deadly disease sponsored fund raising event for Cystic Fibrosis.

Please consider this letter as a recommendation of character and integrity amidst the serious consequences that Mr. Barrios is facing. Although the purpose of this letter does not want to undermine and his contributions to his community, family, and friends. We hope the recognition and thankfuiness of the seriousness of the incident, I hope it provides a glimpse into the content of a young man's character our organization helps Rafael to see his importance to us and those he has helped in tandem with providing a foundation of discretion to be considered by the criminal justice system he is currently detained in. Please do not hesitate to speak with me directly with any questions or concerns you may

SIncerely,

Joshua M. Fleig

Director of Alumni Affairs



2715 Atlantic Ave Atlantic City, NJ 08401 Dept. of Public Safety

(609) 347-5788 Communications (609) 347-5588 Desk Sq. (609) 347-5766 Investigations

Thursday, July 17, 2008

Division of Criminal Justice

State of New York

Ţ0;

Officer Melvin Murray, Jr. Р.юп.

Police Officer #469

Atlantic City Police Department

Rafael Barrios, Jr. - Character Reference % 6.

Dear Sir or Madame;

It is also my belief that Mr. Barrios will learn from Township, NI class of 1999. Mr. Barrios participated in High School Basketball, and later became a Peer thirty years and have known Mr. Barrios since birth. He graduated from Oakcrest High School, Hamilton acquainted with Mr. Barrios' family and Mr. Barrios personally. I have known Mr. Barrios' family for this incident and not repeat this behavior. If you have any further questions in reference to this matter individual. Mr. Barrios has a strong community and family base from which to pull. I believe if any This letter is to offer a character reference for Mr. Rafael Barrios, Jr. I have been closely Coordinator. I have always known Mr. Barrios to be of upstanding moral character, and a bright Athletic Advisor for the Venice Park Basketball, Atlantic City, NJ, of which I am the Assistant please feel free to contact me at any of the below listed numbers. lenience is shown it will not be a wasted opportunity.

Respectfully Submitted:

Officer Melvin Murray, Jr.

Police Officer

Atlántic City Police Department

Charlie Patrol Platoon

(609) 344-4878 hm

[609] 992-2631 cell

(609) 347-5780

Police Communications

Louis Barrios 2010 Airport Road Hammonton, NJ 08037 August 21, 2008

Dear Honorable Robert Patterson:

experienced this past year with both trials and the time he has spent in the federal facility I wanted to reach out to you directly in the case referencing, Rafael Barrios Jr. I am his cousin and have known Rafael for all of his life. The process that the entire family has has been very difficult to endure and emotionally draining.

after testimony arguing this case. You also heard plenty of statements regarding Rafael's l appreciate your patience in dealing with two separate trials and listening to testimony character and background. Although the verdict of the second trial did not have the outcome the family was hoping for, we are still here supporting Rafael.

Please understand that Rafael comes from a strong family background with many people Unfortunately, today's "hip hop society" influences has blurred the defined line between supporting him. By no means am I trying to disregard the severity of the charges he was case. With all of the influences in today's society it is very common for a young man to right and wrong and it takes situations as Rafael is going through to bring clarity to that found guilty of. I am asking the court to please have leniency in the sentencing of this make mistakes or put himself in a situation that can have a less than positive outcome. defined line.

unconventional as it sounds, I believe he has become a better person for realizing what is ask the court to please have compassion in your sentencing of Rafael Barrios Jr. Thank important to him as a man. He is a good young man with his entire life ahead of him. I opportunity. We all fear the effects that a long term sentence would have on Rafael. In conversations I have had with him I know he has grown from this experience and as Rafael has the foundation to become a productive member of society given the

Sincerely,

Jouis Barrios

Frances Barrios 4018 Adam Círcle Hammonton, NJ 08037

> Honorable Robert P. Patterson United States District Court Southern District of New York 500 Pearl Street, Room 2550 New York, New York 10007

Dear Honorable Judge Patterson,

No. 07-CR-658), will appear in your court room on July 18, 2008, for sentencing. Your I am writing this letter as a concerned mother. My son, Rafael Barrios (Docket honor please show clemency with my son when considering his sentence. Rafael is a son, a brother and uncle to a new baby boy; he is a cousin and a great He comes from a big tight knit family full of love and support. fathered any children. Rafael is a young man who has a lot of potential. He is a high My son still has many things to accomplish in life. He has never been married or school graduate and he also received a certificate from a vocational school. My son has a lot to offer life, and life has a lot to offer him. friend to many people.

At the time of his arrest, Rafael had no previous arrests or criminal background. My son was establishing a career in construction. He was a very hard worker and was responsible, caring and a thoughtful person. He is greatly missed by his family and dedicated to his job and his family. My son is a very lovable, respectful, reliable, friends. Your honor please show leniency towards my son's sentencing.

Sincerely,

Meculic Frances Barrios



DET. DAN ADCOCK

PLEASANTVILLE POLICE DEPARTMENT Kasseledes - Courage - Trayenty

17 North First Street Pleasantyille, N.J. 08232 P.P.D. Casa #

Telephone: (609) 641-6100 Fax: (609) 646-1595

April 17, 2007

To Whom It May Concern,

second chance. I am confident if you see fit to give him that chance that you any trouble and has not been in any trouble with Law Enforcement. He was raised with respect for his family and himself. RJ currently finds himself in everything he can to not make the same mistake. I am hoping that whoever decision that was probably more from being with the wrong kind of people I have known the Barrios family for approximately 25 years. I first met were to be given a second chance that he would appreciate that fact and do RJ as he is affectionately called when he was about two years old. He is a well-rounded and well-mannered person who has never given his parents know that good people sometimes make bad choices. I believe that if RJ as opposed to him doing this from his own volition. I have been in Law Enforcement myself for approximately eighteen years and I believe and will not regret that decision. If I can be of any assistance in this matter has the final decision on what happens to RJ will consider what I have stated, that he is a good person who made a bad choice and deserves a trouble with the law. I firmly believe that he made an incredibly bad please feel free to contact me.

Sincerely, Wolcald, DSG. Danny Adcock

26 WILSON DRIVE, NORTHFIELD NJ 08225 Blair A. Bergen, M.D., F.A.C.O.G., F.A.C.S 7696-883 (609)

July 17, 2008

RE: Raphael Barrios, Jr.

Dear Honorable Judge Robert Patterson:

I have known Raphael Barrios, Jr. (RJ as he is known to us) for 20 years as well as his family. I know the family personal and professional. RJ has always been a respectful, hardworking, and caring child and now young adult. He has a very loving family and was raised with good values. RJ has never been in trouble until now.

trouble and make mistakes. As a parent myself, peer pressure on our children leads them As with most children today they get caught up with the wrong people and get into down the wrong path which leads them susceptible to making mistakes.

financial strain he has placed on his loving family. We ask that this young man be given This young man has told me he made a grave mistake and is very sorry for the pain and lets show RJ that he is not only cared for by his family and friends but also by mankind We respectfully request your Honor that you be very lenient with RJ a second chance. and society.

Thank you in advance for your consideration.

Respectfully,

Blair A. Bergen, M.D., F.A.C.O.G., F.A.C.S.

PLUMBING & HEATING DAVID RODRIGUEZ 6216 Mill Road, EHT Lic. No. 10811

609-926-1008 or 609-576-4058

TO THE HONORABLE JUDGE ROBERT PATTERSON

My name is David Rodriguez, Sr. and I am writing on behalf of Ralph Barrios, Jr. I have been good friends of his parents and family for over 40 years. I witnessed Ralph Jr. growing up and he and my son, David Jr., are the best of friends.

that the prospect of serious jail time will undoubtedly serve to force him to re-evaluate his recent Since I have known him he has never gotten himself into any trouble. I feel that he is in this situation solely on a misguided choice, something he did not fully think the consequences through. I believe acquaintances and decisions. In my experience with him he has exhibited a strong sense of character and a willingness to make his loved ones proud. I strongly feel he has reached a trying and confusing time in his life, but with the proper support can turn things around and truly become a law abiding and contributing member of his community I hope that with your wisdom and years of dealing with such young men that you may also see what this young man has to offer. I thank you for your time and consideration in this matter. If you require any further insight or information about Ralph Jr. please do not hesitate to call me at any time at 609-576-4058.

Sincerely,

David Rodriguez,

President

Rodriguez Plumbing & Heating

Honorable Judge Robert Patterson

I am writing this letter on behalf of R. J. Barrios.

would just like to say Mr. Barrios is a bright and talented young man with a promising My name is George T. Rccvcs, and I have known Mr. Barrios for about 21 years. future in his knowledge of carpentry along with his ability to learn.

Mr. Barrios also is a pleasure to have around, playing, social interacting with me and my kids, explaining the importance of education.

Although Mr. Barrios has been caught up in a bad situation I am asking for your leniency on his sentencing.

Mr. Barrios is a well mannered pleasure individual to have around.

I could go on about all the good in Mr. Barrios, but I now your time is limited

Thank You for your time.

George T. Reeves

Myasthenia Gravis



of Myasthenic Syndromes Differential Diagnosis

Acetylcholine Receptor Autoantibodies

Diagnosis of Myasthenia gravis

autoimmune disease. Specific acetylcholine receptor autoantibodies (ACHRAB) lead to a reduced impulse transmission to the postsynaptic membrane of the Myasthenia gravis is an acquired, humoral neuromuscular end-plate.

the functional activity at the postsynaptic membrane. mainly with the α -subunit of the receptors, reducing acetylcholine receptor autoantibodies. These react T-helper cells which have been activated in the thymus probably stimulate the production of the

Calcium Channel Autoantibodies

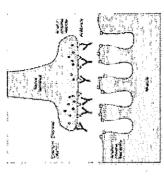
Diagnosis of Lambert-Eaton Syndrome

The primary physiological disorder in the Lambert-Eaton myasthenic syndrome (LEMS) is a reduced release of the neurotransmitter acetylcholine from the nerve terminals into the synaptic gap.

autoantibodies against a membrane protein of the (VGCC). These channels are also described as nerve cell, the voltage-gated calcium channel active zone of the presynaptic membrane. This presynaptic disorder is caused by



click the picture for better view



Autoantibodies against the presynaptic voltage-gated calcium channels Lambert-Eaton Syndrome

Myasthenia gravis
Autoantibodies against the postsynaptic acetylcholine receptor

Clinical Features

weakness and fatiguability of sceletal muscles. Ptosis and diplopia occur early in the majority of patients. Weakness remains localized to the The main features in myasthenia gravis are

The Lambert-Eaton syndrome occurs less often than myasthenia gravis. The main characteristics are a weakness of the proximal muscles, reduced tendon reflexes as well as autonomous disorders like visual

Myasthenia Gravis

extraocular and eyelid muscles in about 15 % of patients (ocular myasthenia). The facial and bulbar muscles can be affected (mild generalized disease). Generalized weakness develops in about 85 % of patients and can lead to a life-threatening impairment of respiration (severe generalized disease and crisis).

The disease occures during all ages, from infancy up to old age. The prevalence is 5-12 cases per 100,000 population. Women are affected twice as often as men.

In the severe generalized disease even low strain causes respiratory insufficiency. Sitting up as well as walking or standing is no longer possible without help. The limb muscels are almost immobilized. Chewing and swallowing may be strongly impaired and patients may aspirate. Because of these lifethreatening conditions it can be necessary to look after the patients in an intensive care unit.

Patients with an initially severe generalized myasthenia gravis have a poor prognosis. Sometimes a myasthenic crisis with respiratory insufficiency can occur within a short time.

Many factors like infections, stress or psychological impairment can cause a change for the worse.

disorders, dry mouth, reduced transpiration and tear fluid, constipation and sexual impotence.

In about 60 % of cases LEMS appears as paraneoplastic syndrome, associating specifically with small-cell lung carcinoma (SCLC). In the remaining cases no carcinoma can be found even after long periods of observation.

LEMS is usually diagnosed prior to any clinical manifestation of the tumour. Typically the neurological symptoms may precede the radiological appearance of the cancer by 2 years and sometimes by 5 years or more. The diagnosis of LEMS can give the earliest clue to an underlying tumour.

Therefore, patients with LEMS should have repeated pulmonary check-ups. X-ray examinations of the chest are recommended every 3 months and a bronchoscopy every 6 months.

The Lambert-Eaton syndrome usually occurs after the age of 30 and is twice as common in men as in women. The disease is rare with children and adolescents.

The typical symptomes in LEMS are very similar to the generalized symptomes of myasthenia gravis (MG). Therefore, LEMS may initially be misdiagnosed as MG. The most important different characteristics of the two diseases are shown in the following table:

| | Myasthenia gravis | Lambert-Eaton Syndrome |
|--|-------------------------------|---------------------------------------|
| muscle strength | decreasing during ongoing | maximum contraction delayed |
| ocular muscles paresis | typical | rare |
| autonomic nervous system | normal | anti-cholinergic syndrome |
| tendon reflexes | normal | reduced with post-tetanic faciliation |
| single nerve stimulation | normal amplitude | reduced amplitude |
| repetitive stimulation | decrement at 3-Hz stimulation | additional increment at 20-Hz |
| acetylcholine receptor autoantibodies | positive | negative |
| calcium channel autoantibodies | negative | positive |

Diagnosis

Myasthenia Gravis

acetylcholine receptors is of great importance for the fiber electromyography are essential. Especially the differential diagnosis. The most common method is most important initial clues to the diagnosis of MG. test, the 3-Hz repeated stimulation and the single-Confirmatory laboratory testing like the Tensilon® the immuno-precipitation test (ACHRAB® Assay). The history and physical findings are usually the measurement of circulating antibodies against

Above all it has been shown, that an increase of the concentration does not correlate with the severity of generalized myasthenia gravis and in about 45% of patients with ocular MG. The absolute antibody Consequently, the measurement of the antibodies features. Therefore, the measurement of the antibodies is of great help in the therapeutic management and follow-up of myasthenia gravis. autoantibodies can often be found several weeks the disease, but in more than 90% of the patients there is a good individual correlation between the change of antibody concentration and clinical enables a preventive therapeutic management. Pathological concentrations of antibodies are detectable in about 90 to 95% of patients with before the onset of clinical deterioration.

repetitive nerve stimulation can be used. In addition the radioimmunological measurement of antibodies For the diagnosis of the Lambert-Eaton syndrome against the voltage-gated calcium channels are of help. The use of P/Q-VGCCs, labelled with 1251-∞-Conotoxin MVIIC results in a high sensitivity and methods like testing of the tendon reflexes and specificity

in the test, 80% to 90% of the patients with LEMS but. without SCCL are found positive. There are only very syndrome and small-cell lung carcinoma are positive autoimmune diseases like rheumatoid arthritis or few cases of normal healthy blood-donors and patients with other neurological disorders and 90% to 100% of patients with Lambert-Eaton SLE, who are found low positive in the test.

Like in myasthenia gravis, the absolute concentration severity of the disease. But for the individual patient of antibodies seems not to be correlated with the the increase or decrease of the concentration of antibodies may reflect the clinical course of the disease.

Therapy

Anticholinesterase agents (Prostigmine, Pyridostigmine) are used as the first line of treatment for myasthenia gravis at all stages of severity and the focal disease, restricted to ocular muscles. Either indicated for more severe generalized disorders. The single steps of treatment depend on the severity of grades of the disease. They are the basis used for treatment with corticosteroids and azathioprine is surgical thymectomy or immunosuppressive the clinical symptomes.

% females) and improvement is seen in another 45 Plasma exchange produces short-term clinical improvement. It is used primarily to stabilize the After thymectomy, clinical remission occures in patients who do not respond to other methods. condition of patients in myasthenic crisis or in approximately 30 % of the patients (mainly at

the tumour often causes a temporary improvement of small-cell carcinoma of the lung, priority is given to the therapy of the tumour. The surgical removal of the neurological symptomes. Immunosuppressive For a Lambert-Eaton syndrome associated with drugs are usually not indicated.

Plasmapheresis is an effective treatment for patients without tumour, an immunosuppressive therapy with syndrome. It enhances the release of acetylcholine from the presynaptic nerve terminals. If there is no some cases even remissions have been reported. 3,4-Diaminopyridine (possibly in combination with pyridostigmine) seems to be ideally suited for the prednisolone and/or azathioprine is indicated. In sufficient improvement, particularly in patients symptomatic treatment of the Lambert-Eaton with severe symptoms.

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